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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/671,084	09/27/2000	Toshihide Ito	335-37	6569
7:	7590 02/26/2004		EXAMINER	
Laff Whitesel Conte & Saret 401 North Michigan Avenue			ip, sikyin	
Chicago, IL 6			ART UNIT	PAPER NUMBER
0 .			1742	

DATE MAILED: 02/26/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

* -	Application No.	Applicant(s)				
		ITO ET AL.				
Office Action Summary	09/671,084 Examiner	Art Unit				
,	Sikyin Ip	1742				
The MAILING DATE of this communication app			lress			
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be within the statutory minimum of thirty (30) will apply and will expire SIX (6) MONTHS from cause the application to become ABANDO	e timely filed days will be considered timely, om the mailing date of this cor NED (35 U.S.C. § 133).	nmunication.			
Status						
1) Responsive to communication(s) filed on 10/23	<u>8/03;12/01/03</u> .					
2a)⊠ This action is FINAL . 2b)☐ This	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-6,8-14 and 21-24 is/are pending in the day of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-6,8-14 and 21-24 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or are subject to restriction and/or are subjected to by the Examine	vn from consideration. r election requirement. r.	e Evaminer				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applic ity documents have been rece ı (PCT Rule 17.2(a)).	eation No eived in this National S	Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summ Paper No(s)/Mai 5) Notice of Informa 6) Other:		.152)			

Art Unit: 1742

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims 1-6, 8-14, and 21-24 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over WO9834755.
- 4. The cited reference discloses the features substantially as claimed. The disclosed features include claimed Pb-free Sn based solder composition. The instant claimed Ag and Cu upper limits are about the same as the lower limits of said references. The features relied upon described above can be found in the reference at abstract and page 8, second full paragraph which discloses total content of Ni and/or Fe up to 1 wt.%. The difference between the reference(s) and the claims are as

Art Unit: 1742

follows: The cited references do not disclose Sn-Ag-Cu solder material properties such as the dissolution rate, liquidus temperature, and/or viscosity. However, the instant Pb-free Sn solder compositions are overlapped by the cited reference; consequently, the material properties as recited in the instant claims would have inherently possessed by the teachings of the cited reference. Therefore, the burden is on the applicant to prove that the product of the prior art does not necessarily or inherently possess characteristics attributed to the claimed product. In re Spade, 911 F.2d 705, 708, 15 USPQ2d 1655, 1658 (Fed. Cir. 1990). It is well settled that a newly discovered property does not necessarily mean the product is unobvious, since the property is inherently possessed in the prior art. See In re Best, 562 F.2d 1252, 1255, 195 USPQ 430, 433 (CCPA 1977), In re Swinehart, 169 USPQ 226 (CCPA 1971), In re Skoner, et al., 186 USPQ 80, and MPEP § 2112.01.

Response to Arguments

- 5. Applicant's arguments filed October 23, 2003 and December 01, 2003 and 132 declaration filed December 01, 2003 have been fully considered but they are not persuasive.
- 6. Applicants' argument, filed October 23, 2003, in pages 2-3 of the instant remarks is noted. However, mere argument or conclusory statements in the specification is not sufficient. In re Geisler (CA FC) 43 USPQ2d 1362 (7/7/1997).
- 7. The declaration filed on December 1, 2003 is noted. But, the Ni and Fe

Art Unit: 1742

contents disclosed in said declaration are outside the instant claimed ranges. Comparison must be done under identical condition except for the novel features of the invention. In re Brown, 173 USPQ 685 and In re Chapman, 148 USPQ 711. The scope of the showing must be commensurate with the scope of the claims. In re Tiffin, 448 F.2d 791, 792 (Fed. Cir. 1971), In re Coleman, 205 USPQ 1172, In re Grasselli, 713 F.2d 731, 743, 218 USPQ 769, 778 (Fed. Cir. 1983), and In re Greenfield, 197 USPQ 227. Absent a showing of new and unexpected results, the mere optimizing in a known range for a desired result is within skill of ordinary artisan. In re Aller, et al., 105 USPQ 233. Assuming arguendo that the contents of Ni and Fe in the declaration are typographical errors; nevertheless, applicants' declaration fails to show what alloying element and its content are critical for all properties.

- 8. Applicants argue that the claimed Ag contents (claim 1, 2.99 wt.%; claim 24, 3.49 wt.%) are outside the Ag content (3 to 7 wt.%) of WO '755. But the claimed 2.99 wt.% Ag is not patentable distinct from 3.0 wt.%. The instant declaration fails to show 2.99 wt.% is critical. The claimed 3.49 wt.% Ag is clearly within the range of prior art teaching.
- 9. Applicants' argument in pages 7-10 of the instant remarks is noted. But, the examples in the declaration fail to show the claimed compositions are critical for the

Art Unit: 1742

properties. Comparison must be done under identical condition except for the novel features of the invention. In re Brown, 173 USPQ 685 and In re Chapman, 148 USPQ 711. The scope of the showing must be commensurate with the scope of the claims. In re Tiffin, 448 F.2d 791, 792 (Fed. Cir. 1971), In re Coleman, 205 USPQ 1172, In re Grasselli, 713 F.2d 731, 743, 218 USPQ 769, 778 (Fed. Cir. 1983), and In re Greenfield, 197 USPQ 227.

Conclusion

10. This is a RCE application. All claims are drawn to the same invention claimed in the earlier application and could have been finally rejected on the grounds and art of record in the next Office action if they had been entered in the earlier application. Accordingly, **THIS ACTION IS MADE FINAL** even though it is a first action in this case. See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no, however, event will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Applicant is reminded that when amendment and/or revision is required, applicant should therefore specifically point out the support for any amendments made to the disclosure. See 37 C.F.R. § 1.121.

Examiner Correspondence

Any inquiry concerning this communication or earlier communications from

Art Unit: 1742

the examiner should be directed to S. Ip whose telephone number is (571) 272-1241. The examiner can normally be reached on Monday to Friday from 5:30 A.M. to 2:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Roy V. King, can be reached on (571)-272-1244.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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SIKYIN IP PRIMARY EXAMINER ART UNIT 1742

S. Ip February 13, 2004